SHOKHIN, M. V.

30386

Novyy pochodnyy (poch v ye nnyy) tye rm omyetr. Byu llyetyen' Glav. Botan. sada. Vyp. 3, 1949, S. 80-82.

SO: Letopis' No. 34

SHOKHII, M. V.

Gardening

Handy garden hole digger. Biul. Glav. bot. sada, No. 9, 1951.

Monthly List of Fussian Accessions, Library of Congress, June 1952. UNCLASSIFIED.

SHOKHIN, M. V.

PA 245T60

USSR/Geophysics - Soil Evaporator

Nov 52

"The Accuracy of Weighing Soil Evaporators," M. V. Shokhin, Main Botanical Gardens, Acad Sci USSR, Moscow

"Meteorol i Gidrol" No 11, pp 49-52

Discusses the accuracy of postal and inspector evaporator scales. Concludes that neither guarantees accuracy in weighing. Consistency in average daily evaporation is satisfactory in the weighing by the inspector scales but is completely lacking in the weighing by the postal scales.

245160

- 1. SIGALOV, B. YA. SHOXHIN, M.V.
- 2. USSR (600)
- 4. Grasses
- 7. Wintering of grass. biul. Glav bot. sada. no '52.

9. Monthly List of Russian Accessions, Library of Congress, March 1953. Unclassified.

SLOTE TO, M.Y.

Determination of the Temperature of Soil in Minter by Maximum Thermometers Meteorol. I gidrologiya, No 6, 1953, pp. 40-43

A procedure for observations by maximum thermometers in wells down to depths of 120 cm is described. The magnitude of the error as a function of time of exposure is clarified. A comparison is made with data obtained by extraction thermometers (510 pairs of readings under Moscow in 1951-1952). It turned out that the mean temperature of the layer of soil from 20 to 120 cm according to the maximum thermometers is lower than according to the extraction thermometer by 0.2°. (RZhGeol, No 5, 1954)

SO: Sun. No. 568, 6 Jul 55

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549820014-7

AUTHOR:

Shokhin, M. V.

SOV/50-58-11-17/25

TITLE:

Errors in the Reading of Ground-frost Measuring Instruments Designed by Ratomskiy and Danilin (Pogreshnosti pokazaniy merzlotomerov Ratomskogo i Danilina)

PERIODICAL:

Meteorologiya i gidrologiya, 1958, Nr 11, pp 52-55 (USSR)

ABSTRACT:

Ratomskiy's (Ref 2) and Danilin's (Ref 1) instruments are mounted in a steady position and permit the determination of the dynamics of ground freezing and thawing. The construction and the process of observation of both instruments on the whole are based on the same principles, but the instruments msed for determining the freezing limit are made of different materials. By means of Ratomskiy's instrument this limit is determined according to the freezing of the soil that has been filled into a metallic telescopic shell; by means of Danilin's instrument water in a rubber hose serves this purpose. The assumption that the soil in the shell and the water in the rubber hose freeze simultaneously with the water in the soil pores entails an inaccuracy since this may occur possibly at various temperatures. At the beginning of winter and in spring both instruments yield, primarily after the melting of the

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Errors in the Reading of Ground-frost Measuring Instruments Designed by Ratomskiy and Danilin SOV/50-58-11-17/25

snow cover, distorted values of the depth of freezing and melting. In publications this problem hitherto has been insufficiently investigated. The author checked these depths by means of a drill or by digging out a prospect. The aforesaid measuring instruments were mounted in the Glavnyy botanicheskiy sad AN SSSR (Main Botanical Garden, AS USSR). In this case both the kinds of soil and trees differed from one another; the groundwater level was found in a depth of 0.5-1.0 m. The frequency of the above-mentioned differences (+ and - compared with the check) is listed in table 1 which indicates that Ratomskiy's measuring instrument in 92.3 % of all cases yielded higher values than the check. In 5.2 % equal readings were obtained. Figures 1 and 2 show the deviations of readings from the check at the beginning of winter and in spring. Table 2 and figures 3 and 4 show corresponding results obtained by Danilin's instrument. The author explains the deviations determined and arrives at the following conclusions: 1) Ratomskiy's groundfrost measuring instrument is not very well suited for regions of a low and unstable degree of ground frost. The tube and the filling shell are made of galvanized sheet iron, which

Card 2/3

Errors in the Reading of Ground-frost Measuring Instruments Designed by Ratomskiy and Danilin SOV/50-58-11-17/25

possesses a high degree of thermal conductivity. Considerable errors in measurement occur accordingly. Checking measurements are to be carried out in regions where the ground freezes to a sufficient depth (up to adepth of 20-25 cm) at the beginning of winter and in spring during the thawing (up to a depth of 50 cm). 2) During the period of ground thawing Danilin's instrument agrees with the check to a larger extent than Ratomskiy's instrument. But in the case of thawing from above (from the surface) it records a lower depth than the check; on the other hand, a larger depth is determined in the case of thawing from below. After summing up these data a frozen ground layer is obtained that is thicker than the actual one. Accordingly, the time of complete thawing is shifted by 1-3 days. There are 4 figures, 2 tables, and 2 Soviet references.

Card 3/3

SHOKHIN, '- H

MODZOLEVSKIY, Igor' Vladimirovich; BARSEGOV, A.A.; KARPOV, I.V.; KARTSEV, I.T.; KRYLOV, N.M.; NIKOLAYEV, I.V.; REVICH, V.I.; SHEVYAKOV, V.A.; SHOKHIN, O.A.; CHUSOV, A.I.; GORODNICHEV, N.G., redaktor; CHERNYSHEV, V.I.; Fedektor; KHITROV, P.A., tekhnicheskiy redaktor

[General course on railroads] Obshchii kurs zheleznykh dorog. Izd. 2-e. perer. Moskva, Gos. transportnoe zhel-dor. izd-vo, 1954. 316 p. (Railroads) (MLRA 8:3)

MODZOLEVSKIY, Igor' Vladimirovich, inzh.; BARSEGOV, A.A.; KARPOV, I.V.; KARTSEV, I.T.; KRYLOV, N.M.; HIKOLAYEV, I.V.; REVICH, V.I.; SHEVYAKOV, V.A.; SHOKHIN, O.A.; CHUSOV, A.I.; GUBAREVA, N.T., red.; BOEROVA, Ye.N., tekhn.red.

[General course in railroad engineering] Obshchii kurs zheleznykh dorog. Izd.3., perer. Pod obshchei red. I.V.Modzolevskogo.
Moskva, Vses.izdatel'sko-poligr.ob"edinenie M-va putei soobshcheniia, 1960. 290 p. (MIRA 13:12)

(Railroad engineering)

	\$7.5 4.6536
L 44382-66 EWT(1) FDN/GW SOURCE CODE: UR/0413/66/000/015/0011/001: ACC NR: AP6029870 SOURCE CODE: UR/0413/66/000/015/0011/001: INVENTOR: Belov, V. I.; Shevaldin, I. Ye.; Shokhin, V. F.	
ORG: none TITLE: A method of producing heat insulation in boreholes in permafrost regions. Class 5, No. 184205 SOURCE: Izobret prom obraz tov zn, no. 15, 1966, 11	
ABSTRACT: A method of thermal lindstand fluid from freezing during critesiand described. To prevent the cleaning fluid from freezing during critesiand described. To prevent the cleaning fluid from freezing during critesiand duri	off
1 - Inner column of casing pipes; 2 - outer column of casing pipes; 3 - reverse valve.	
Card 1/2	

ACC NR: AP6029870 and the formation of hydrate during the subsequent exploration of the well, the space between the two columns of concentric casing pipes is filled with air. Whenever necessary, the air can be periodically blown through by means of reverse valves (see Fig. 1) installed in the lower part of the inner column. Orig. art. has: 1 figure. [CS] SUB CODE: 08/ SUBM DATE: 15May65/ ATD PRESS: 5077		
and the formation of hydrate during the subsequent exploration of the well, the space between the two columns of concentric casing pipes is filled with air. Whenever necessary, the air can be periodically blown through by means of reverse valves (see Fig. 1) installed in the lower part of the inner column. Orig. art. has: 1 figure. [CS] SUB CODE: 08/ SUBM DATE: 15May65/ ATD PRESS: 5077	L 44382-56	
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SHCKHIE, V. N.

SHOFFHIM, V. N.: "Investigation of the phenomena of movement of mineral grains in suspensions used for dressing coal." Min Higher Educatio: USSR. Poscow Mining Inst imeni I. V. Stalin. Chair of Dressing of Useful Minerals. Moscow, 1956 (Dissertation for the Degree of Candidate in Technical Sciences)

So: Fnizhnava Letopis', No 17, 1956

VERKHOVSKIY, I.M.: SHOKHIN, V.N.

Movement of mineral grains in suspensions. Obog. rud 3 no.6:16-20
(MIRA 14:8)

'58.

(Ore dressing)

sov/136-58-8-1/27

AUTHORS:

Shokhin, V.N. and Verkhovskiy, I.M.

TITLE:

Method of Determining Final Fall Velocities of Grains in

Heavy Moving Media.

skorostey padeniya zeren v tyazhelykh podvizhnykh sredakh.)

PERIODICAL: Tsvetnyye Metally, 1958, Nr.8, pp.1-4 (USSR).

ABSTRACT:

For determining the falling velocities of particles in opaque media (suspensions) visual methods are unsuitable and various electrical systems have been proposed. authors list the disadvantages of three of these - that of Mitrofanov and Zelinskiy (Ref.1), of Muzylev (Ref.2) They go on to describe their own method which is free from many of the listed defects. and of Goroshko (Ref.3). The electrical part of the method is an improvement on that of the tensometer designed by the Moskovskiy gornyy institut (Moscow Mining Institute). that as a ferromagnetic grain passes the centre line of an induction core it causes a change in the inductive resistance of the coil, which unbalances the bridge circuit and registered with a millivoltmeter; the same occurs when

Card 1/2

CIA-RDP86-00513R001549820014-7" APPROVED FOR RELEASE: 08/23/2000

SUV/136-58-8-1/27

Method of Determining Final Fall Velocities of Grains in Heavy Moving Media.

the grain passes a second coil. An oscillographic record (Fig.2) or other means can be used for timing the grain over the distance. An editorial note points out that the authors have not taken into account the difference in suspension speed at the walls and centre of the tube of their apparatus (Fig.1). The authors claim that the apparatus enables the falling speed of grains in heavy media, including ferromagnetic suspensions, moving at a constant speed, to be determined, and suggest that the method could be applied to study grain motion in true solutions as well as suspensions. There are 2 figures, 1 table and 4 Soviet references.

ASSOCIATION: Moskovskiy gornyy institut (Moscow Mining Institute).

1. Grains (Metallurgy)—Theory 2. Grains (Metallurgy)—Testing equipment 3. Grains (Matallurgy)—Test results

Card 2/2

VARLAMOV, N.A.; SHOKHIN. V.N.; BELYKH, L.P.

Dressing Lisakcyka ores in a hydrocyclone with a magnetite suspension. Go:. zhur. no.8:67-70 Ag '64. (MIRA 17:10)

1. Magnitogorskiy gornometallurgicheskiy institut.

ZENSKOV, V.D. BRILLIANTOV, V.V.; VINOGRADOV, N.N.; SHOKHIN, V.N.
VIAD, P.

Electric measurement methods in investigating wet gravity ore dressing processes. Nauch. trudy MGI no. 32:5-14 '60.

(Ore dressing)

(Electric measurements)

VERKHOVSKIY, I.M.; SHCZHIN, V.N.

Determining the boundary dimensions of a grain moving in a suspension. Obog. rud 4 no.6:347 159. (MIRA 14:8)

1. Moskovskiy Gornyy institut imeni I.V. Stalina.
(Farticle size determination)
(Hydrometallurgy)

VARIANCE, N.A.; KOSTIM, I.M., kand. tekhn. nauk; SHOKHIM, V.P., kand. tekhn. nauk

Centrifugal dresding of emidized from ores in hydraulic cyclones.

Binl. tekh..enon. inform. des. nauch.-issl. inst. nauch. i tekh.

inform. 17 no.8:7-8 Ag 164.

(MIRA 17:11)

GOLUBEV, A.V.; PAVIGY, A.V.; Prinimali uchastive: ANAN'YEVA, Yu.G.,
laborant; IRRAGEMOVA, Z.R., laborant; MAL'MOVA, M.M., laborant;
MCTNV,, Laborant,
M.M., laborant,
Investigating heat currents in soils for some types of the active surface. Dokl. AN SSSR 139 no.6:66-118 Ag '61.

(MIRA 14:7)

(Moscow Province—Soil temperature)

SHOKHIMA, O.I., Cand Geol Min Sci -- (diss) "Alkaline rocks of the Bulan-Kul'skiy massive (Krasnoyarskiy Kray)." /Hos, 1959/, 13 pp (Min of Higher Education. Mos Order of Lenin and Order of Labor Red Banner State Univ im M.V. Lomonosov.

Geol Faculty. Chair of Petrography) 110 copies (KL, 34-59, 112)

- 29 -

SHOKHINA, O.L.

Composition and texture of alkali rocks in the Bulan-Kul'skiy massif. Nauch.dokl.vys.shkoly; geol.-geog.nauki no.2:54-61 (MIRA 12:8)

1. Kompleksnaya laboratoriya Instituta geologii i geofiziki Sibirskogo otdela All SSSR.

(Kuznetsk Ala-Tau--Rocks, Igneous)

SHOKHINA, O.I.

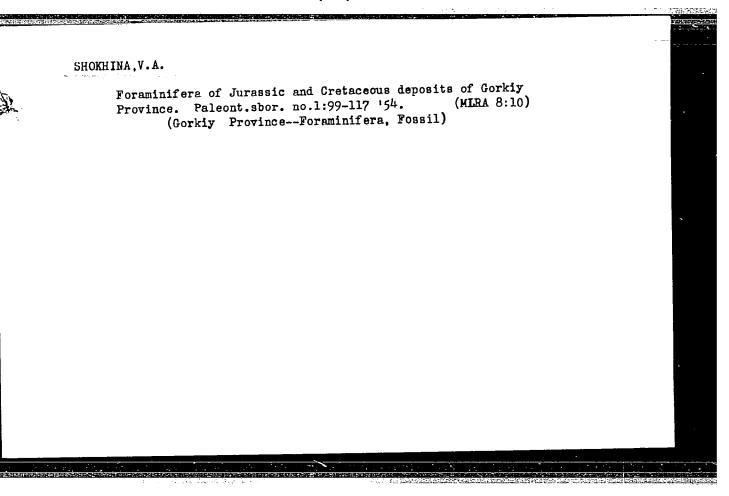
Geological characteristics of the Bulan-Kul' alkali massif (southern Krasnoyarsk Territory). Izv.vys.ucheb.zav.; geol.i razv. 2 no.3:54-64 Mr '59. (MIRA 12:12)

 Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova. (Bulan-Kul' region (Krasnoyarsk Territory)--Petrology)

PROTSENZO, P.I.; SHOKHINA, O.N.

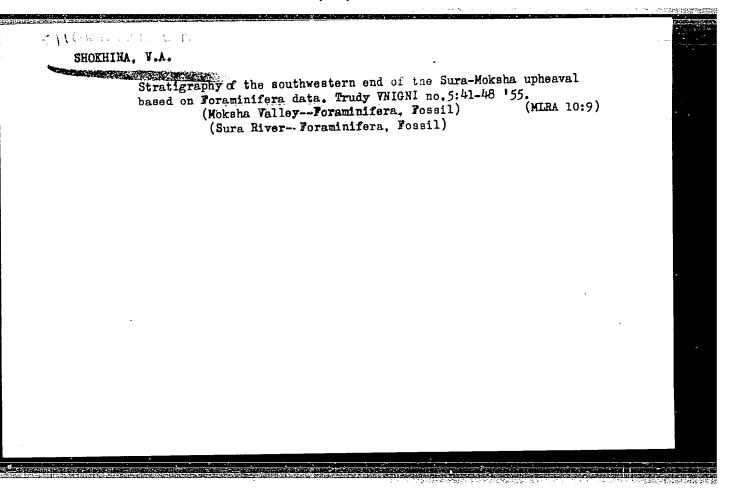
Viscosity of melts in the system NaNO₂ - KNO₂. Zhur.neorg.khim. 9
no.1:152-155 Ja '64. (MIRA 17:2)

1. Rostovskiy gosudarstvennyy universitet.



"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549820014-7



SHOKHMAN, Ya.D., kand. med. mauk (Prokop'yevsk, Kemerovskoy oblasti.
Vokzal'naya ul.,d.38,kv.23); FLAKHIN, I.T., miadshiy nauchnyy
sotrudnik

Injuries of the hand in children due to percussion cap explosions. Ortop., trava. i protez. 25 no.11:57-59 N 164.

(MENA 18:11)

i. Is detskers ortopedo-travmatologisheskogo stdeleniya (zav. - Ya.D. Shektman) filiala Novosiberskogo instituta travmatologil distribedii (dis. - K.C. Nirenburg). Submitted February 11, 1964.

KHRJARYAM, S.J.; SHOKIMA, V.V.; KNUNYAMTS, I.b.

finorinated mono- and dispozy compounds. Izv. AN DESR Ser. khim.
no. 1.72-75 165.

1. Institut elementoorganicheskikh soyadineniy AN SSSR.

SHOKHMAN, Ya. D.

Measurement of the strength of the muscles of the leg and foot. Ortop., travm. i protez. no.1:70-72 162. (MIRA 15:2)

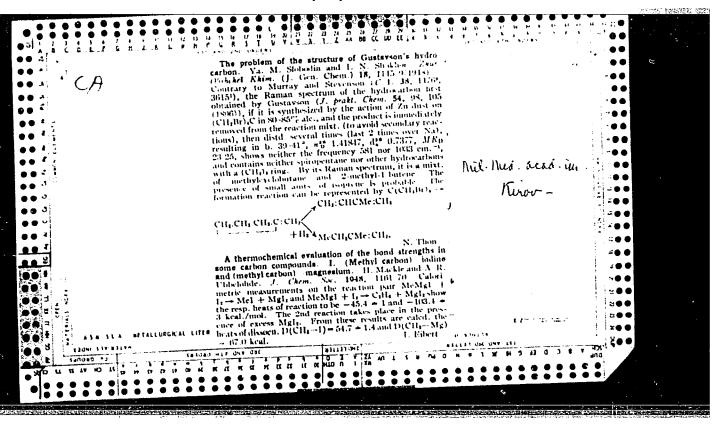
1. Iz detskoy kliniki (zav. - doktor med. nauk L. Ye. Rukhman)
Leningradskogo nauchno-issledovatel*skogo instituta protezirovaniya
(dir. - dotsent M. V. Strukov)

(MUSCLES) (LEG) (FOOT)

IOSHKAREV, M.A., kand.tekhn.nauk; EOGORAD, M.L., kand.tekhn.nauk;
SHOKHOR, G.I., inzh.

Calculation of the durability of threaded flange joints on the bacis of maximum loads. Sbor. st. NIIKHIIMMASH no.21;3-8 '58.

(Flanges--Testing)



SHOKHOR, I. N.

USSR/Chemistry - Polymerization, Dimerization

Aug 48

Chemistry - Vinyl Compounds

"Polymerization and Depolymerization: IV, The Dimerization of Divinyl," Ya. M. Slobodin, F. Yu. Rachinskiy, I. N. Shokhor, Mil Acad imeni S. M. Kirov, 3 pp

"Zhur Obshch Khimii" Vol XVIII (LXXX), No 8

Shows that during catalytic thermopolymerization of divinyl in presence of floridin dimer forms are produced, accompanied by migration of hydrogen atom. Main product of dimerization is 1,4-dimethyl-cyclohexadiene. By-product is 1,2-dimethyl-cyclohexadiene. Lebedev's dimer (vinyl-cyclohexene) is not formed under these conditions. Submitted 25 Jun 46.

PA 19/49T20

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549820014-7

SHOKHOR, I. N.

USSR/Chemistry - Polymerization Chemistry - Vinyl Compounds

Aug 48

"Polymerization and Depolymerization: V, Tetrameric Divinyl," Ya. M. Slobodin, F. Yu. Rachinskiy, I. N. Shokhor, Mil Med Acad imeni S. M. Kirov, 2 pp

"Zhur Obshch Khimii" Vol XVIII (LXXX), No 8

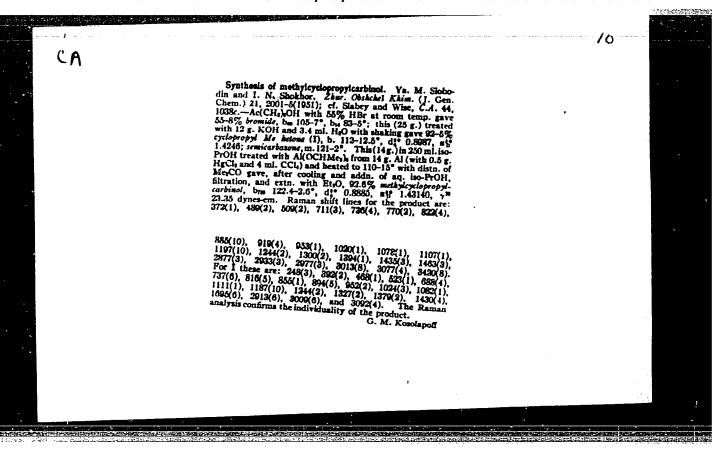
Shows that tetramer formed during thermopolymerization of divinyl in presence of floridin in the temperature range 300-400 is 9,10-dimethyl-decahydro-anthracene. Submitted 22 Jun 46/

PA 19/49T21

DOIGOT, B.N., professor.; SHOKHOR, I.

Dehydrocyclization of benzalacetone. Nauch. biul. Len. un. no.22:
25-26 '49.

1. Kafedra organicheskoy khimii.
(Butenone)

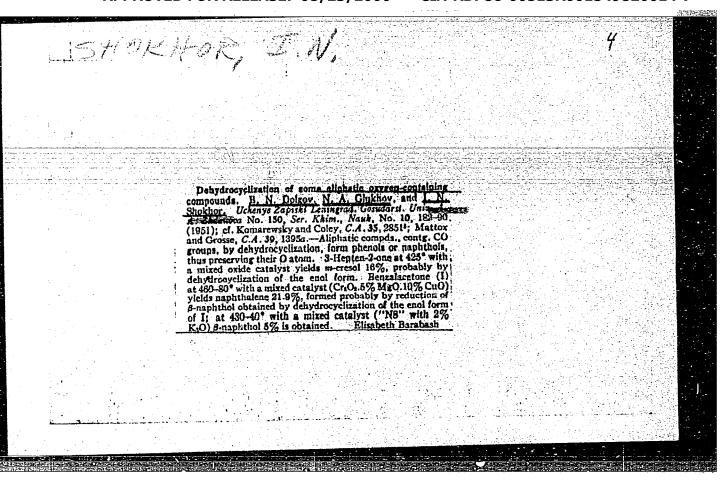


10

Structure of Gustavson's hydrocarbon. II. Stepwise synthesis of apiropentane. Ya. M. Slobotin and I. N. Shokhor. Zhur. Obishet Rhim. (J. Gen. Chem.) 21. 2008-11(1951); cf. Gustavson. Issui. Akul. Noak (Russ.) 5, 237(1896); J. proki. Chem. [2] 54, 105(1896); 56, 93 (1897); C.A. 43, 901d.—Raman analysis of Gustavson's hydrocarbon spirt. showed that the principal components are methylenecyclobutane and EtcMe: CHs. The atepwise synthesis of spiropentane (Zelinskil and Kravets, C.A. 7, 1176) gives methylenecyclobutane only, since the 3-memberod ring stomerizes to a 4-memberod ring, confirming the mechanism of isomerization suggested by Favorskil and Batalin (C.A. 9, 1750). C(CH40H) (130 g.) and 102 g. Accordinate the higher fractions, including 50% 1.3,3.5-penkashirs. gave several fractions, including 50% 1.3,3.5-penkashirol discretale, bit 272-5°, which crystallizes in part owing to transposition of Ac groups, depositing pentacrythritol; the higher fractions contained tetra- and triacetates. The product treated with red P and Br in CHCls with ica cooling gave 38% 2.3-bit bromomethyl)-1.3-pensasiod discretale, bit 182-7°, dev. 1.6518, s. 9, 1.65591, which (190 g.), treated with 150 ml. RtOH, 16 ml. 14:0, and 50 g. Za dust 2 treated with 150 ml. RtOH, 16 ml. 14:0, and 50 g. Za dust 2

hrs. on the steam bath gave 1,1-cyclopropanelizathanel diacests, 44%, be 135-7°, dt° 1.0817, at° 1.4456, which boiled 6 hrs. with sattl. KsCO, soln. gave 55% 1,1-cyclopropanelizathanel, be 123-7°, dt° 1.0710, at° 1.6435, \(\gamma^2\) 38.64, partly crystg, on standing. A better procedure was to treat the broande with Zn, sat, the mint. with NH₄ at 0°, and let stand 9-3 days. The gives above with PBr; and pyridise gave 43% of the biglromeomethyleydepropose, be 83-7°, dt° 1.7805, at° 1.3864, \(\gamma^2\) 37.94. This with Zn dust in BtOH with simultaneous districtions of the biglromeomethyleydepropose, be 83-7°, dt° 1.7805, at° 1.23643, \(\gamma^2\) 37.94. This with Zn dust in BtOH with simultaneous distriction 47% Aydrocarbon (II), bus 41.5-2.5°, dt° 0.7357, at° 1.4162, \(\gamma^2\) 20.37, which, hydrogenated over the oxide, readily took up 60% (of theoretical) H. Its consts. and behavior confirm its structure as methylenecyclobulene and not a trace of apiropantane was found. Hydrogenation of the Gustaveza hydrogenation of 2 components, whereas II gave a smooth curve; osonolysis gave cyclobultaneae and HCOM cody. The isomerisation to the cyclobultaneae and HCOM cody.

mainly during the treatment of the dibromide, probably with formation of 1-bromo-1-(bromomethyl)-cyclobutane from 1,1-bis(bromomethyl)-cyclopropane. The Raman spectrum of the dibromide contains elements of 3- and 4-membered rings.



"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86

CIA-RDP86-00513R001549820014-7

SLOBODIN, YA. M., SHCKHCR, I. M.

Cyclopropylacetylene

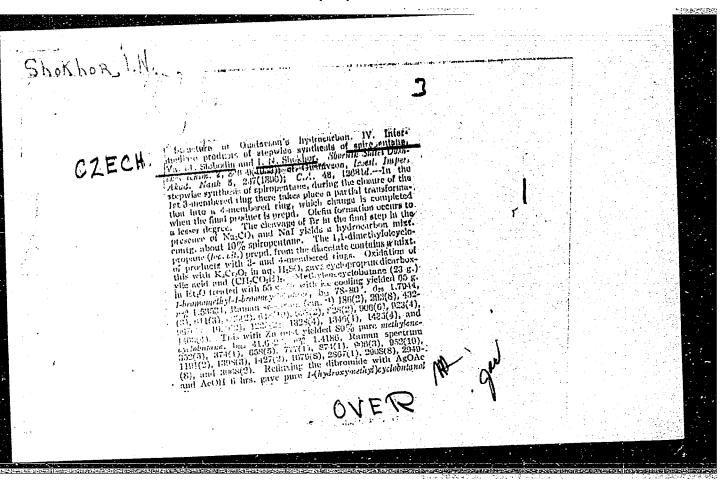
Cyclopropylacetylene Zhur. cb. khim. 22, No. 2, 1952.

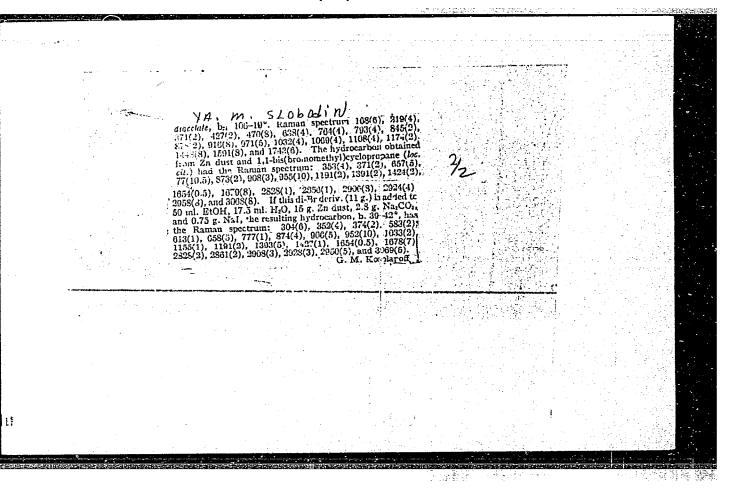
Monthly List of Russian Accessions, Library of Congress, August 1952. Unclassified.

		- . <u></u>					Emet Loty
SHOKHOR, I. N.	20 <u>7175</u>	partial splitting off of HCl (10-15%) to form 75% vinylcyclopropane (II) and 25% trans-piperylene. Synthesized II and took its Raman spectrum.	209T15 USSR/Chemistry - Hydrocarbons (Contd) Feb 52	By means of Raman spectroscopy, identified products of interaction of PBr ₃ with methylcyclopropylcar-binol (I) as \(\omega\)-bromoethylcyclopropane and about 70% 5-bromopentene-2. Established that \(\omega\)-chloroethylcyclopropane, product of interaction of PCl ₃ with I, undergoes opening of ring only to small extent. During its prepn and treatment it is subjected to	"Action of PCl3 and PBr3 on Methylcyclopropylcarbinol," Ya. M. Slobodin, I. N. Shokhor "Zhur Obshch Khim" Vol XXII, No 2, pp 208-214	USSR/Chemistry - Hydrocarbons Feb 52	
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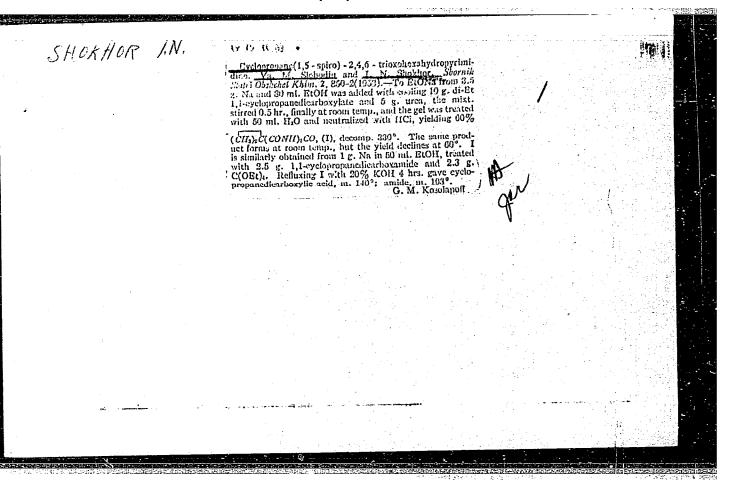
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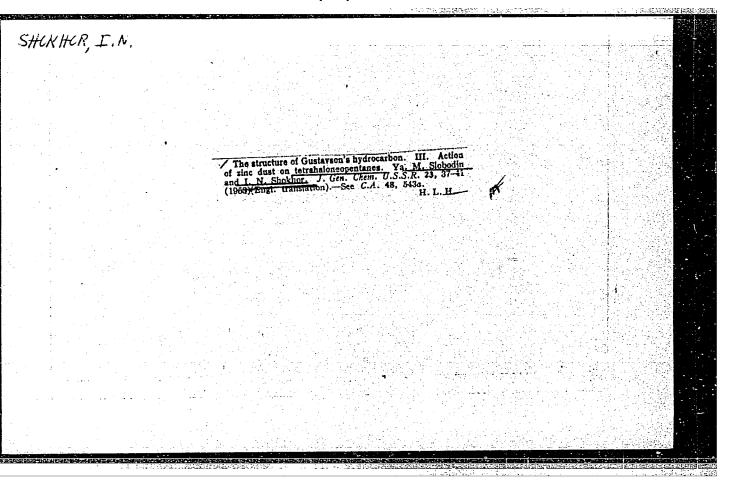


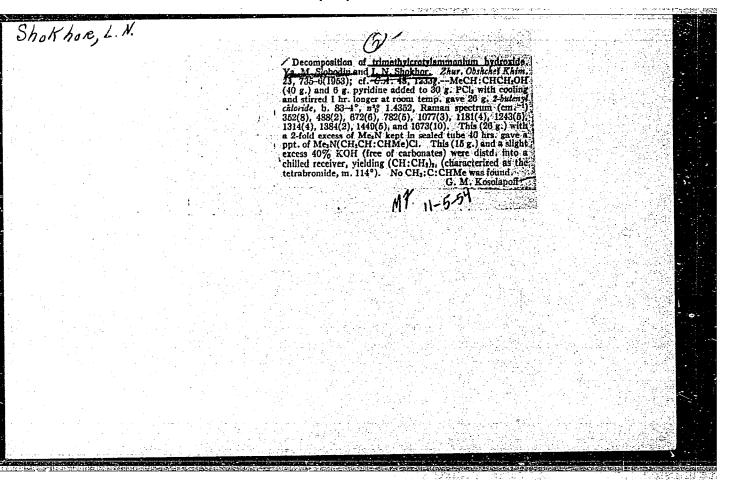


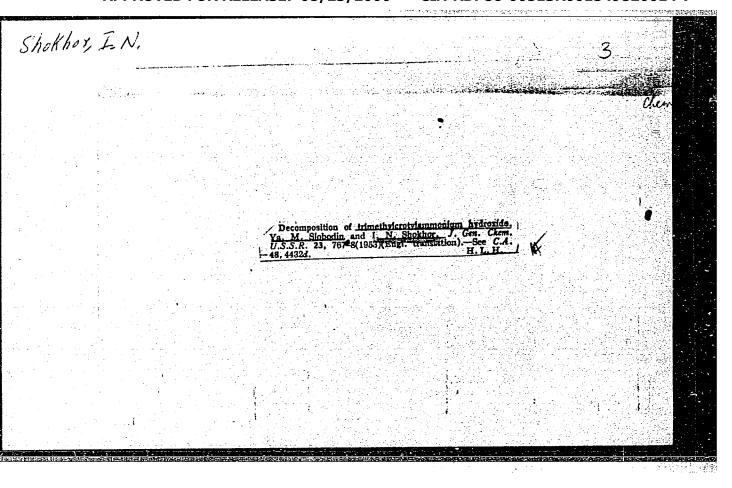
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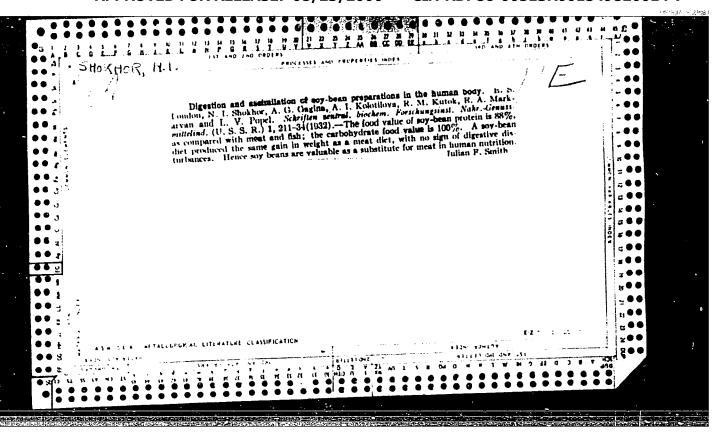


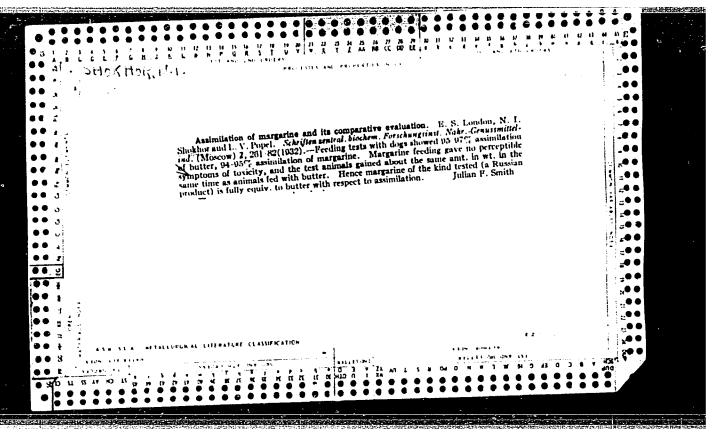


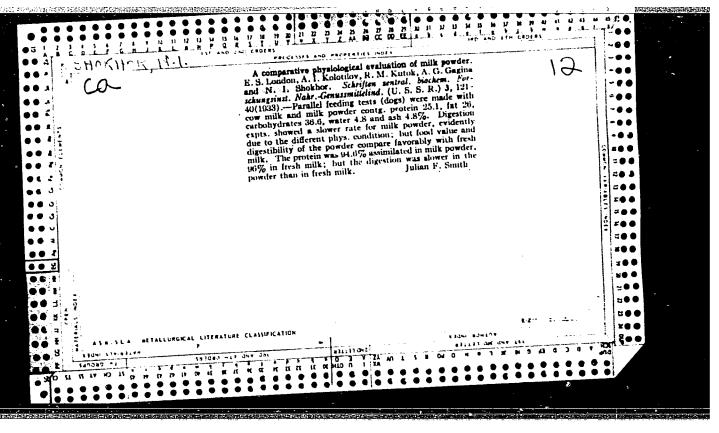
SHOKIN, I. N.; SOLOV'YEVA, A. S.

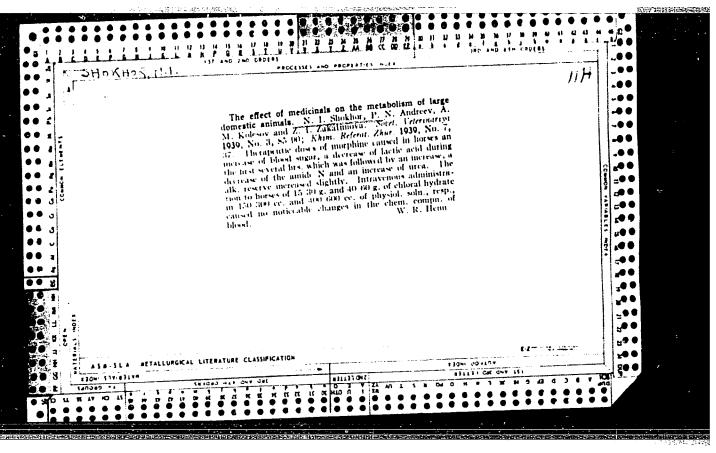
Increasing the stability of ammonium bicarbonate. Trudy MKHTI no.35:43-47 161.

(Ammonium carbonate)









SHCHHORANTE

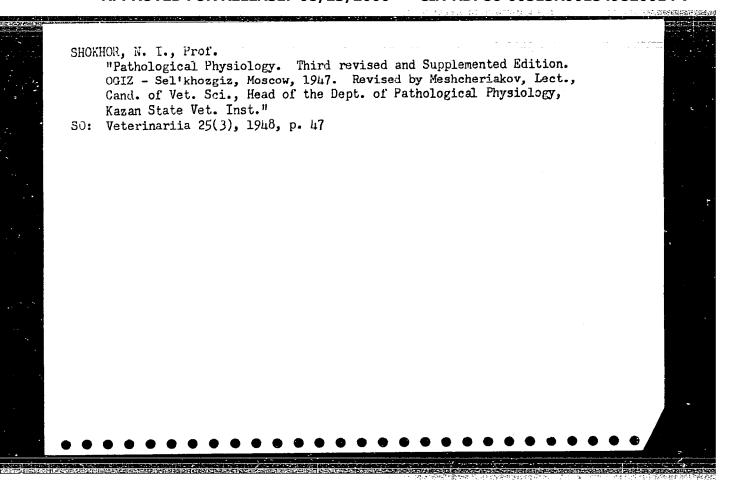
1. SHOKHOR, N. I.,

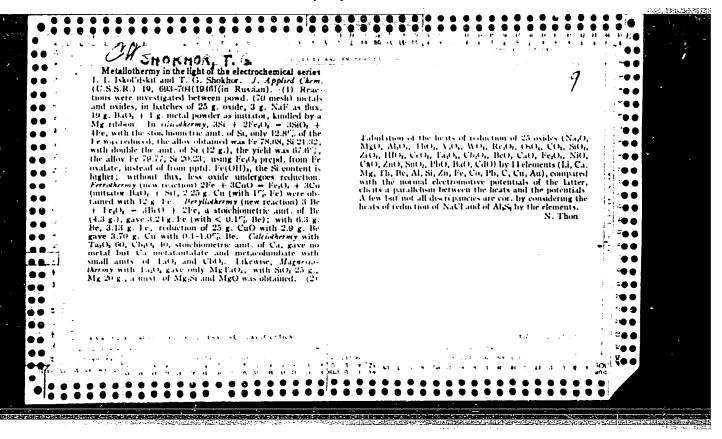
2. USSR (600)

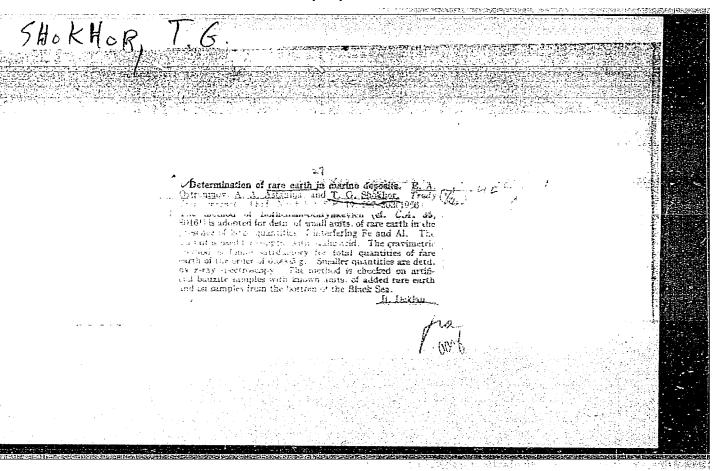
Freewmatika Flant "The Arrangement of Planet Pinions in the Planetary Reducing Gear"

Stanki i Instrument, 12, No. 1, 1941.

9. Report U-1503, 4 Oct. 1951







BEYN, E.S.; GERTSENSHTEYN, E.N.; RUDENKO, Z.Ya.; TAPTAPOVA, S.L.; CHERNOVA, A.D.; SHOKHOR-TROTSKAYA, M.K.; KUKUYEV, L.A., red.; KUZ'LINA, N.S., tekhn. red.

[Handbook on the recovery of speech by persons affected with aphasia] Posobie po vosstanovleniiu rechi u bol'nykh afaziei. Pod red. E.S.Bein. Moskva, Medgiz, 1962. 335 p.

(MIRA 15:5)

(APHASIA) (SPEECH THERAFY)

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549820014-7

SHOKHOV, I.S., kand. tekhn. nauk.

Rlectric methods for metal coating. Mashinostroitel' no.1:23-24

Ja '58. (MIRA 11:1)

(Electroplating)

PHASE I BOOK EXPLOITATION SOV/4594

Shokhov, Ivan Samsonovich

Uprochneniye rezhushchikh, shtampovykh i izmeritel'nykh instrumentov (Surface Hardening of Cutting, Stamping and Measuring Tools) Moscow, Trudrezervizdat, 1959. 94 p. (Series: Novaya tekhnika i peredovyye metody truda) 5,000 copies printed.

Scientific Ed.: Ye.A. Pankina: Ed.: A.L. Bashkovich; Tech. Ed.: A.M. Toker.

PURPOSE: This booklet is intended for foremen, teachers in engineering trade schools, and it also may be useful to workers in the machine-building industry.

COVERAGE: The booklet presents data on the surface-hardening of the working surfaces of cutting, stamping, and measuring tools by chromium plating and by thermochemical treatment in the solid, liquid and gaseous media. The author provides examples of the chromium plating of some tools done in accordance with the new group-processing method developed by S.P. Mitrofanov, Lenin Prize winner. No personalities are mentioned. There are 20 references, all Soviet.

Card 1/4

SHOKHOV, P.A., elektromekhanik

How to prevent short-circuits in ABN-72 storage batteries. Avtom., telem. i sviaz 9 no.8:34 Ag '65. (MIRA 18:9)

1. Vologodskaya distantsiya Severnoy dorogi.

LENTSNER, A.A.; LIVSHITS, I.A.; SPIVAK, Ye.A.; SHOKHOVA, O.M. (g. Tartu)

Change in sensitivity to antibiotics of Newcastle dysentery bacillus in the human body before the beginning of treatment. Antibiotiki 7 no.7:643-646 Jl. 62. (MIRA 16:10) (ANTIBIOTICS) (DYSENTERY)

SHOKHOVA, Z.V.; MOTORKINA, R.K.

Using heteropolycyclic compounds for gravimetric and volumetric determination of germanium. Vest.Mosk.un.Ser.mat.,mekh., astron., fiz.,khim. 12 no.2:183-193 '57. (MIRA 10:12)

l.Kafedra analiticheskoy khimii Moskovskogo universiteta. (Germanium) (Heterocyclic compounds)

SHOKHRIN, Z.I.

Silvery jet. Znan. ta pratsia no.3:2-4 Mr '59.

(Goal mining machinery)

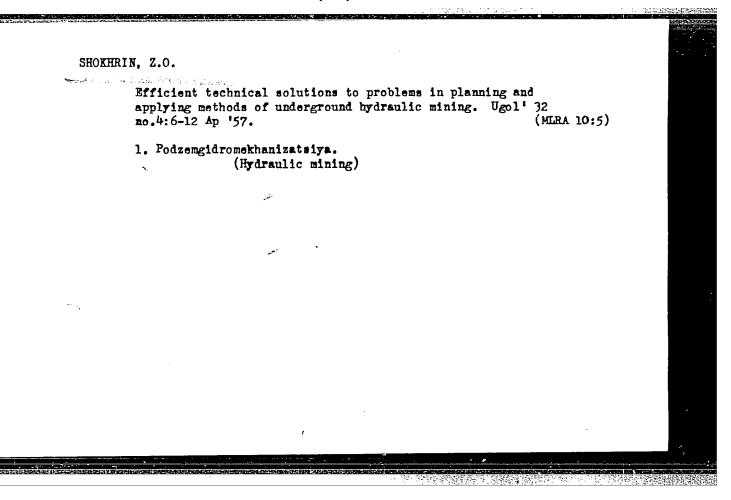
(MRA 12:10)

SHOKHRIN, Z.I., gornyy inzh.

Hydraulic coal mining. Nauka i zhyttia 9 no.9:13-15 S '59. (MIRA 13:1)

l.Nachal'nik gidroshakhty No.4 tresta "Ordzhonikidzeugol", "Stalinskaya oblast".

(Stalino Province--Hydraulic mining)



SHOKHRIN, Z.O., gornyy inzh.

Experience achieved by the hydraulic mine no.4 of the Ordzhoniki-dzeugol' Trust. Ugol' 34 no.2:12-17 F '59. (MIRA 12:4)

1. Nachal'nik Gidroshakhty No.4.
(Donets Basin--Hydraulic mining)

SHOKHRIN, Z.O.

Some work results in a hydraulically mined section. Ugol' Ukr. 4 no.4:22-25 Ap '60. (MIRA 13:8)

Nachal'nik shakhty No. 4 tresta Ordzhonikidzeugol'. (Donets Basin--Hydraulic mining)

SHOKHTIN, A.P. Examiner with an optical indicator. Izm.tekh. no.12:8 D'62. (MIRA 15:12) (Level (Tool)—Testing)

SHOKIN, A.M.

. . .

Large metallurgical center in the Korean People's Republic.
Metallurg 6 no.3:38 Mr '61. (MIRA 14:5)

1. Referent po Koreyskoy Narodno-Demokraticheskoy Respublike Otdela mezhdunarodnogo knigoobmena Gosudarstvennoy biblioteki SSSR im. V.I. Lenina.

(Korea-Metallurgical plants)

ZHUKOVICH, A.V.; SHOKINA, A.V.

Encephalographic examinations in logoneurosis. Zhur. nevr. i psikh. 64 no. 12:1785-1791 '64. (MIRA 18:1)

1. Elektrofiziologicheskaya laboratoriya (zaveduyushchiy N.P. Bekhtereva) Leningradskogo neyrokhirurgicheskogo instituta im. Polenova.

SHOKIN, G. (Saratov); SOLODOVNIKOV, P. (Saratov)

Voltmeter for recording corrosion. Zhil.-kom.khoz. 10
no.4:28-29 '60. (MIRA 13:6)
(Voltmeter)
(Saratov--Gas pipes--Corrosion)

SIN, G.A.; MARAIN, G.A.; KUZNETHOVA, A.G.

Goatinuous method of the reduction of cuprous chloride by metallic copper. Trudy MKHTI nc.47:103-110 '64.

Solubility of copper monochloride in aqueous solutions of NaCl, NaCl + CuCl₂ and NaCl + Na₂SO₄. Ibid.:111-114 (MIRA 18:9)

SHOKIN, I.I., inzh.

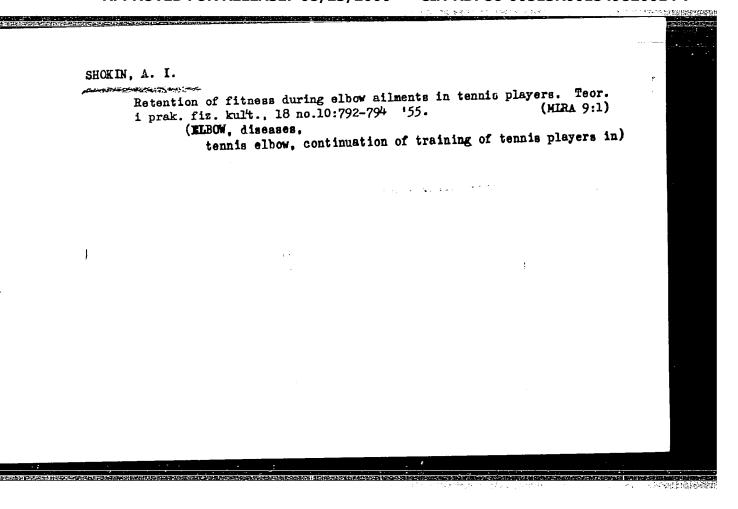
Investigating the wear resistance of gear wheels made of laminated wood plastics. Der.prom. 7 no.12:14-15 D '58. (MIRA 11:12)

1. Moskovskiy lesotekhnicheskiy institut.

(Laminated plastics) (Mechanical wear)

SHOKIN, I.I., inzh.

Experimental study of the strength and wear of cogwheels from resin indurated plywood and textolite. Nauch. trudy MLTI no.ll: 85-100 °61 (MIRA 18:1)



107-57-1-6/60

AUTHOR: Shokin, A., First Deputy of the Minister of the Radio-Engineering Industry, USSR

TITLE: Scientists and Radio Specialists Answer Questions of Editors (Na voprosy redaktsii otvechayut uchenyye i radiospetsialisty)

PERIODICAL: Radio, 1957, Nr 1, pp 6-7 (USSR)

ABSTRACT: The questions of the "Radio" journal were: (1) On what problems should radio amateurs work at the present time in adopting radio and electronics in the national economy ? (2) In what field of radio engineering is their experimentation particu-

Mass radio amateurism in the Soviet Union has a great importance for radio industry. Radio-amateur work is a source of skilled radio men, who are always sought by Soviet radio plants, design bureaus, and research organizations. Developmental work and mass experimentation by radio amateurs can help in solving many problems of improving radio circuits and radio-equipment parameters. To facilitate this work, better relations are necessary between DOSAAF radio clubs and radio-industry enterprises. At present, manufacture of radio receivers and TV sets has reached 1 million pieces a year, and saving in material is of great importance. A few rubles saved on one receiver or TV set can result in an overall saving of millions of rubles per year. Amateur designers can help greatly in this matter; they should improve radio circuits, transistorize them, and try to cut power consumption as far as possible. Amateurs should help in developing an inexpensive 3-band radio broadcast receiver with a VHF band. Amateurs

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107-57-1-6/60

Scientists and Radio Specialists Answer Questions of Editors

should also help in developing receiver kits, TV sets, etc. Other possibilities of emateur work are listed.

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LIKHACHEV, M.; SHOKIN, A.

World fair. Radio no.1:28-30 Ja '58. (MIRA 11:1)

(Brussels-Fairs)

(Radio--Receivers and reception)

(Television--Receivers and reception)

SHOKIN, A.I.

107-57-5-3/63

AUTHOR: Shokin, A., First Deputy Minister of Radio-Engineering Industry, USSR

TITLE: The Ways of Growth (Puti rosta)

PERIODICAL: Radio, 1957, Nr 5, pp 3-6 (USSR)

ABSTRACT: May 7th has been the "Radio Day" in the USSR. It has a special significance in 1957, the 40th anniversary of Soviet regime in Russia. A review of development of radio engineering and electronics in the Soviet Russia from November 7, 1917, up to 1957 is presented. All main events are noted and connected with policies of Soviet regime. Of later events the following specific points are worth noting:

First Soviet radars "Reven'" and "Redut" were designed and manufactured at the Radiotelegrafnyy zavod Morskogo vedomstva (Radio Telegraph Factory of the Navy Office) before WW2. In 1955 the radio-engineering industry (MRTP factories only) produced 20 times as much as in 1940. In 1956 the production was by 29% higher than in 1955. In 1957 a further growth by 23% is expected. Over the Fifth Five-Year Plan period the radio-engineering industry has started production of 750 new items. Over 6,500 items are being manufactured now. The number of research institutes and detached design bureaus has increased sixfold, and the number of specialists employed there tenfold over the period from 1946 to 1956; new are coming in 1957. At the present time the following items are being manufactured: 73 types of electron-beam devices, 225 types of shf devices, 229 types of receiving and amplifying tubes (some of them of a rice-grain size),

107-57-5-3/63

The Ways of Growth

31 type of x-ray devices, 99 types of gas-discharge devices, 44 types of phototubes and counters, 287 types of special and conventional lighting lamps. Over 100 million electrovacuum devices, and over 20 million semiconductor devices are being turned out per year. Among many other things, various types of magnetrons, superpower klystrons, carcinotrons, TW tubes, etc. are being manufactured. Nearly one million capacitors and as much resistors are manufactured per day. A new material, "segnetoceramic", permitted creation of a new type of nonlinear capacitors. Extensive work is being done on modernization of processing and on organization of mass line production. The Sixth Five-Year Plan envisages introduction of 300 new mechanized, semi-automatic, and full-automatic production lines, of 700 new special machines. It is expected that these machines will be equivalent to 40 to 50 thousand workers. Despite a very steep rise curve the radio-engineering industry is still considered as lagging in its technical level and its economic conditions.

AVAILABLE: Library of Congress Nine photosin the article.

Card 2/2

SHOKIN, AI

AUTHOR:

None Given

SOV/108-13-8-11/12

TITLE:

Transactions of the Conference on the Occasion of the 4Cth Anniversary of the Nizhniy-Novgorod Radio Laboratory imeni V.I. Lenin (Konferentsiya, posvyashchennaya sorekaletiyu Ni-

zhegorodskoy radiolaboratorii imeni V.I. Lenina)

PERIODICAL:

Radiotekhnika, 1958, Vol. 13, Nr 8, pp. 71-79 (USSR)

ABSTRACT:

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From May 22-24, a conference took place at Gorkiy which had been organized by the Gor'kiy Branch of the Scientific and Technical Society for Radio Engineering and Electric Telecommunication Service imeni A. S. Popov. The conference was attended by: B. A. Ostroumov, A. M. Kugushev, A. A. Pistol'kors, N. A. Nikitin, G. A. Ostroumov, V. P. Yakovlev, V. K. Ge, N. N. Pal'mov, F. A. Lbov, A. S. Nikolayenko, I. P. Koterov, S. I. Morugina, Ye. S. Sorokin et al. as well as by a group of former collaborators of the Tver' radiostation. A. M. Kugushev spoke about "The Nizhniy-Novgorod Radio Laboratory imeni V. I. Lenin, L. A. Kopytin on the development of the technique in radio

engineering, the establishment of radio communication facilities and television apparatus. A. I. Shokin spoke about the development

of the Soviet radio-engineering industry during the past 40

years.

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1.2 horse

SOV/142-58-4-30/30

AUTHOR:

Gaplichuk, O.M., Engineer

TITLE:

Conference to Commemorate the Founding of the V.I.Lenin Radio Laboratory in Nizhriy Novgorod (Konferentsiya posvyashchennaya pamyati nizhegorodskoy radiolaborat-

orii imeni V.I.Lenina)

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy - Radiotekhnika,

1958, Nr 4, pp 521-524 (USSR)

ABSTRACT:

On May 22, 1958, a conference began in Gor'kiy to mark the 40 years anniversary of the founding of the V.I. Lenin Laboratory in Nizhriy Novgorod. Participants, who numbered over 400, included V.A. Volkova, Secretary of the Party Gorkom in Kalinin, and V. We. Skvortsov, Area Chairman for Communications in Kalinin. Speakers such as V.M. Leshchinskiy spoke on developments in Soviet radio engineering, and particularly on the radio laboratory in Nizhriy Novgorod. L.A. Kopytin spoke on "The development of radio-engineering, radio and television"; Professors B.A.Ostroumov and A.A.

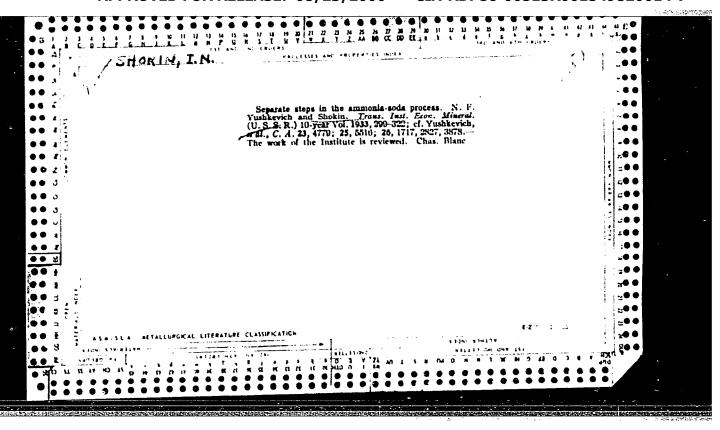
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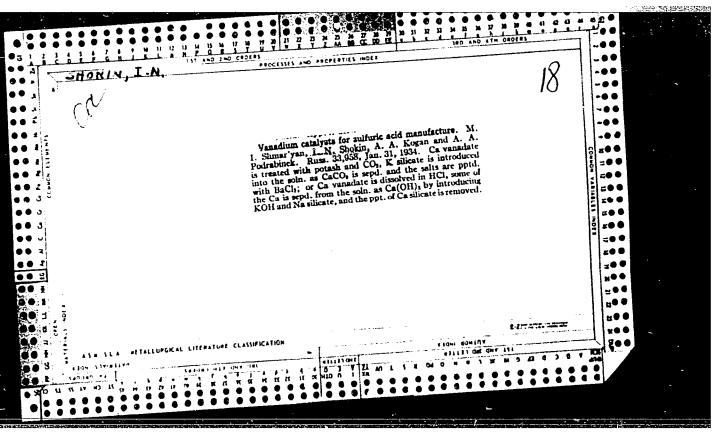
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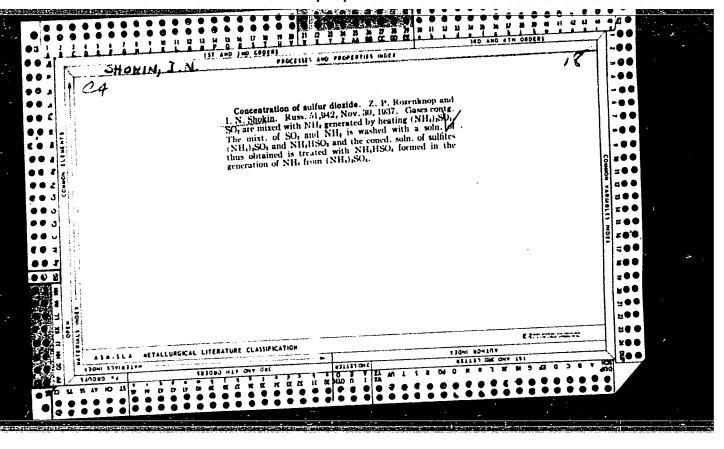
Conference to Commemorate the Founding of the V.l.Benin Radio Laboratory in Nizhnyy Novgorod

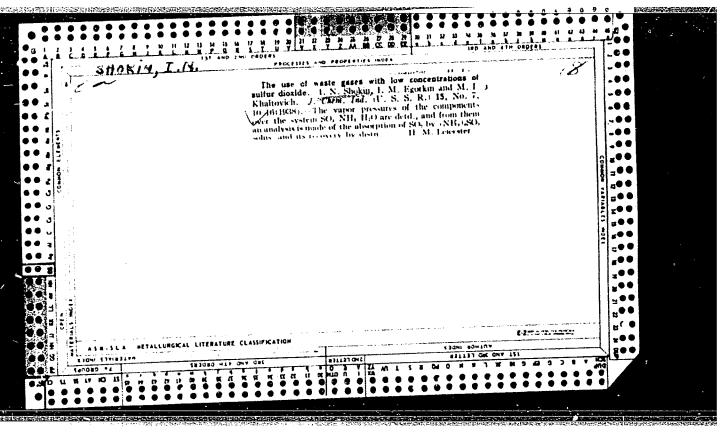
Pistolkors, N.N.Izotov, and N.N.Palmov spoke on their work with the radio laboratory; Ye.A.Popova-Kyandskaya (daughter of A.S.Popov) discussed the work of her father. Ya.M.Sorin examined "From the Crystal to the Transistor"; the Conference looked at current transistor production in the USSE. assessed the work of the Gor'kiy School regarding the oscillation theory, with special mention of Academician A.A.Andronov. Later, D.V.Ageyev spoke on the work of the Radio Department, Polytechnical Institute, Gor'kiy, and B.L. Lebedev discussed research on radio measuring. Professor L.L. Myasnikov evaluated the work of the Research Institute for Radio physics in Gor'kiy. O.N. Malakhov looked at the observations of radio-physicists during a recent expedition in China, April, 1958, the time of the solar eclipse. Finally, A. I. Shokin, Deputy Chairman, State Committee, Council of Ministers of the USSR on radio-electronics, gave a survey report "The Radio-Engineering Industry" on the

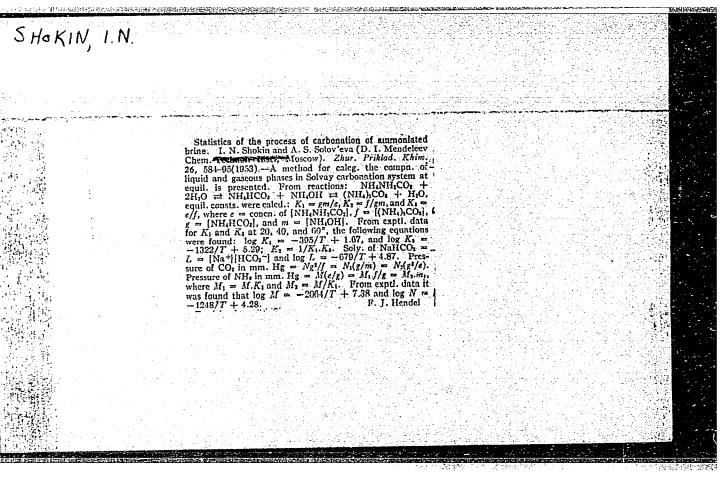
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SHOKIN, I. N. (horn by strong of)

SHCK IN. I. N. - "Investigation of the Process of Carbonization of Ammoniated Brine in the Production of Calcined Soda." Min Higher Education USSR. Moscow Order of Lenin Chemicotechnological Inst imeni D. I. Mendeleyev. Moscow, 1955. (Dissertation for the Degree of Doctor in Technical Sciences)

So; Knizhnaya Letopis' No 3, 1956

AUTHORS:

Sytnik, A. A., Shokin, I. N., Krasheninnikov, S. A. 153-58-1-16/29

TITLE:

Investigation of the Process of Carbonization of the Soda Solution in the Production of Purified Bicarbonate (Issledovaniye protsessa karbonizatsii sodovogo rastvora v proizvodstve ochishchennogo bikarbonata). Communication 1: Kinetics of Crystallization of Sodium-Bicarbonate in the Course of the Carbonization of Soda Solution (Soobshcheniye 1. Kinetika kristallizatsii bikarbonata natriya v protsesse

karbonizatsii sodovogo rastvora)

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya tekhnologiya, 1958, Nr 1,

pp. 100-107 (USSR)

ABSTRACT:

The crystallization of the salts from solutions can only begin and take place in the case of supersaturation of the latter with respect to the respective salt. The extent of initial supersaturation does not only cause the beginning of the crystallization-process, but it also determines its further course. With high values of supersaturation, but low degrees of agitation of the solution, the born crystal begins to grow so rapidly that a zone of concentration which

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Investigation of the Process of Carbonization of the Soda 153.-58-1-16/29 Solution in the Production of Purified Bicarbonate. Communication 1: Kinetics of Crystallization of Sodium-Bicarbonate in the Course of the Carbonization of Soda Solution

is lower than in the main mass of the liquid, is formed almost instantly around it. Under these conditions, the further growth of each crystal is determined by the diffusion-ratio of the dissolved substance toward the crystalline surface. It is assumed (references 1,2) that the process of crystallization is in this case within the range of diffusion and that its velocity is proportional to the 1st degree of saturation. With intense agitating of the solution the diffusion-ratio becomes so high that actually no weakening of the solution on the crystalline surface takes place. The velocity of crystallization is determined in this case by the slowest process taking place on the crystalline surface and depends on the degree of supersaturation which exceeds 1. This range is called the kinetic one (ref. 2). A survey on the works of the kinetics of crystallization is given (references 2 to 5,7). Works of this kind on the velocity of crystallization of sodium--bicarbonate from soda solutions are lacking, however, 2 processes take place simultaneously in the crystallizing

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Investigation of the Process of Carbonization of the Soda 153-58-1-16/29 Solution in the Production of Purified Bicarbonate. Communication 1: Kinetics of Crystallization of Sodium-Bicarbonate in the Course of the Carbonization of Soda Solution

column with the industrial production of purified bicarbonate: a) Absorption of CO, and b) Crystallization of sodium bicarbonata. The process b) must obviously influence the kinetics of carbonization in a certain way and vicaversa. In the first communication the influence of supersaturation, of the temperature and of the agitation on the velocity of crystallization of sodium bicarbonate from the soda solution in the process of carbonization is investigated. A device developed for this purpose is given in figure to The test-method is described. Figure 2 shows the dependence of the precipitated quantity of bicarbonate on the period of carbonization of the solution and that for 2 numbers of revolutions of the stirrer (340 and 2000 revolutions per minute) at 20° . It was proved that the velocity of crystallization of sodium bicarbonate in the range of diffusion, depends on the supersaturation of 1st degree, whereas it is proportional to the 2nd degree of supersaturation within the kinetic range. A different dependence

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Investigation of the Process of Carbonization of the Soda 153.-58-1-16/29 Solution in the Production of Purified Bicarbonate. Communication 1: Kinetics of Crystallization of Sodium-Bicarbonate in the Course of the Carbonization of Soda Solution

> of the velocity of crystallization on the temperature within the range of diffusion and kinetics was proved. Within the first range, this velocity decreases according to the increase in temperature with a given supersaturation, whereas it increases in the latter range. A method of calculation of the velocity of crystallization for the two ranges of the process of crystallization was proposed. There are 10 figures and 7 references, 7 of which are Soviet.

ASSOCIATION: Moskovskiy khimiko-tekhnologicheskiy institut imeni D. I. Mendeleyeva, Kafedra tekhnologii svyazannogo azota i shchelochey (Moscow Chemical Technological Institute imeni D. I. Mendeleyev, Chair for the Technology of Bound Nitrogen and Alkalies)

SUBMITTED:

September 9, 1957

Card 4/4

AUTHORS: Shokin, I. N., Ogloblina, I. P., Solov'yeva, A. S.

153 58-1-17/29

TITLE: On the Non-Equilibrated State of the System in the

Carbonization-Process of the Ammoniacal Brine (O neravnovesnom sostoyanii sistemy v protsesse

karbonizatsii ammiachnogo rassola)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy.

Khimiya i khimicheskaya tekhnologiya, 1958, Nr 1,

pp. 108-118 (USSR)

ABSTRACT: In this process sodiumbicarbonate begins to precipitate

from the solutions highly supersaturated with it (references 1,2). The supersaturation decreasing after the beginning of crystallization is preserved until to the end of the process of carbonization. The permanence of the non-equilibrated state in the system to be carbonized, as a whole, is caused by this. Approximating the equilibrium, not only the concentration of HCO₂ and Na ions is changed in such a solution, the supplies of which is converted into the descript but

the surplus of which is converted into the deposit, but also the concentration of other components of the solution

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On the Non-Equilibrated State of the System in the Carbonization-Process of the Ammoniacal Brine (Rassol)

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equilibrium of the reactions in the solution change. Taking furthermore into consideration that the crystallization of NaHCO₂ involves a certain change of volume of the liquid phase, it becomes apparent that the composition of the non-equilibrated solution must differ from the equilibrated solution with respect to all components. The composition of the former can be determined rather accurately by means of analysis. The same is to a large extent also the case with ammonia-carbonate(e'). The non-equilibrated concentrations of other components (HCO₂ = g' non-bound ammonia = m' and the carbonic acid bound as CO₂ = f') can only be determined by means of calculation. For this purpose, strictly speaking, only the equations (1) and (2) can be indicated which do not connect the non-equilibrated concentrations of individual components: d' = e' + f' + 2g' (1); m' = a' - b' - d' + g' (2), in which case a' is the total quantity of NH₃, d' = the total CO₂ and b' the bound NH₃. From this, further equations for the constant (K₂) of the reaction HCO₃ + OH CO₃ + H₂O (3) are derived for the connection between the non-equilibrated solution and

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On the Non-Equilibrated State of the System in the 153-58-1-17/29 Carbonization-Process of the Ammoniacal Brine (Rassol)

the equilibrated solution (4), (5), (6) corresponding to it. A complete composition of the equilibrated solution can be calculated from its 3 known components for the given temperature (ref. 6). When the non-equilibrated concentrations of the 5 components: a', b', c', d' and e' are determined by analysis, complete compositions both for the non-equilibrated and the equilibrated liquid phase can be calculated at a given temperature. Results of the former for the process referred to in the title at 20, 40 and 60° are given in table 1 to 3. They are substantially different from those of the corresponding equilibrated solutions. The degree of the distance of composition of a solution from that of an equilibrated one depends on the temperature. During the whole course of the process referred to in the title, a carbamate supersaturation exists which is crystallizing in the final stage. The total vapor pressures of CO2, NH3 and H2O at 20, 40, 50 and 600 above the non--equilibrated ammonia-salt solutions during their carbonizationprocess were determined here for the first time. An equation was deduced which allows the calculation of the

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On the Non-Equilibrated State of the System in the Carbonization-Process of the Ammoniacal Brine (Rassol)

"metastable" CO₂ partial pressures above the solutions in the aforesaid carbonization according to a known, non-equilibrated composition of the liquid phase. The authors finally proposed a method of determination of the vapor tension above the solutions by means of a static method. There are 6 figures, 3 tables, and 9 references, 6 of which are Soviet.

ASSOCIATION:

Moskovskiy khimiko-tekhnologicheskiy institut imeni D. I. Mendeleyeva, Kafedra tekhnologii svyazannogo azota i shchelochey (Moscow Chemical-Technological Institute imeni D. I. Mendeleyev, Chair for the Technology of Bound Nitrogen and Alkalies)

SUBMITTED:

September 9, 1957

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SOV/155-58-2-16/30 3(2) Aytnik, A. a., Shokin, I. N., Krasheninnikov. S. A. JTHORS: investigation of the Carbonation Process of the Soda Solution 至1年2日。 in the Manufacture of Purified Bicarbonate (Issledovaniye protsessa karbonizatsii sodovogo rastvora v proizvodstve ochishchennogo bikarbonata; Communication II. Absorption Kinetics of the Carbonic Acid by Soda Solutions (Soobshcheniye II. Kinetika absorbtsii uglekisloty sodovymi rastvorami) izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya PERIODICAL: tekhnologiya, 1958, Nr 2, pp 90-95 (USSa) although the problem mentioned in the subtitle has already ABSTRACT: been treated in numerous papers (Refs 1-6), the results of these investigations are so contradictory that no uniform conception can be achieved regarding these kinetics. In the present paper, the action of the concentration of the sodium bicarbonate solution and its degree of carbonation on the acsorption rate of carbonic acid under various hydrodynamical conditions were studied. An absorption-equipment of the filmtype was used for this purpose, the construction and mode of function of which are described. First of all, it was to be in-Card 1/5

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Investigation of the Carbonation Process of the Soda Solution in the Manufacture of Purified Bicarbonate. Communication II. Absorption Kinetics of the Carbonic Ecid by Soda Solutions

vestigated whether the equation of the absorption rate: $N_a = \beta \cdot K \cdot \Delta P$ (1),

complicated by the chemical reaction, applies for this case (Nabeing the rate of absorption, β - the chemical parameter which shows by which amount the rate varies in the presence of a chemically active component in the solution; K - coefficient of the absorption rate, ΔP - the motive force of the process which is ${}^{P}_{CO_2}$ - ${}^{P}_{CO_2}$, ${}^{P}_{CO_2}$ - the partial pressure of ${}^{CO}_2$ in the

carbonating gas, P'_{CO_2} for carbonation degrees 100-130% prac-

tically equal to zero. The results for 2 different wetting densities: 0.5 and 1.4 m $^3/m$ hour, gas velocity 0.54 m/sec, temperature 20 and carbonation degree 106% (Fig 1) have demonstrated that equation (1) applies for the system given. Figures 2 and 3 illustrate the dependence of the CO $_2$ -absorp-

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Investigation of the Carbonation Process of the Soda Solution in the Manufacture of Purified Bicarbonate. Communication II. Absorption Kinetics of the Carbonic Acid by Soda Solutions

tion rate on the concentration of the solution. It can be seen from this that the velocity mentioned exceeds a maximum at a change of concentration of the solution. The authors explain this by an increase of the degree of hydrolysis of the sodium carbonate with the dilution of the solution. If, however, the soda concentration becomes insignificant because of further dilution, the rate of absorption drops and comes close to that of water. In order to investigate this, the pH was measured (Fig 4). According to the results the pH-curve during the dilution is a reproduction of the course of the curves of the absorption rate. Thus, this rate depends on the OHT ion concentration. This was expressed by equation (2). The influence exercised by the carbonation degree of the solution upon the absorption rate was studied by means of an installation previously described (Ref 9). Furthermore the authors apply the term "Degree of transition" instead of "Degree of carbonation" of the solution. Figures 5 and 6 show the dependence of the CO -absorption rate on the degree of transition for different

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